Appl. No. 09/828,462
Amendment and Response to Final Office Action
September 19, 2005

Attny Docket No. 3184

This listing of claims will replace all prior versions and listings of the claims in the application:

Listing of Claims:

1.   (Currently Amended) An ink jet print engine with Internet connectivity, comprising:

printer hardware and software providing a functioning printer, including a piezoelectric printhead for dispensing ink onto a substrate; and

Internet hardware and software for providing the print engine with Internet connectivity, including a microprocessor communicating with the printer hardware and software, the microprocessor comprising an embedded server having a valid IP address, said microprocessor also containing Ethernet MAC and system controllers.;

said printer hardware or software capable of providing diagnostic information concerning said printer and which is transmittable over the Internet.

2.   (Original) The ink jet print engine of Claim 1, wherein the printer software stores one or more valid IP addresses of servers corresponding to maintenance or service centers for one or more components of the print engine.

3.   (Currently Amended) The ink jet print engine of Claim 1 wherein said printer hardware or software is capable of providing diagnostic information concerning said printer and which is transmittable over the Internet. 2, wherein said diagnostic information is transmitted between at least one of said servers and said one or more components.

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4.   (Cancelled).

5.   (Currently Amended) The ink jet print engine of Claim ~~4~~ 1 , wherein the system

        controllers include memory, DMA, interrupts and timers.

6.   (Previously Presented) The ink jet print engine of Claim 1, wherein said

        microprocessor contains cache, I/O, real time operating systems, device driver

        software and communications protocol software.

7.   (Original) The ink jet print engine of Claim 1, wherein the printer comprises

        integrated networking software.

8.   (Original) The ink jet print engine of Claim 1, wherein the microprocessor uses an

        RTOS operating system.

9.   (Currently Amended) A print engine with Internet connectivity, comprising:

                printer hardware and software providing a functioning printer for dispensing

                information onto a substrate; and

                Internet hardware and software for providing the print engine with Internet

                connectivity, including a microprocessor communicating with the printer

                hardware and software, the microprocessor comprising an embedded

                Internet server having a valid IP address, said microprocessor containing

                Ethernet MAC and system controllers;

                said microprocessor capable of reporting at least diagnostic information

                about said printer hardware over the Internet.

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10.   (Currently Amended) A printer device comprising:

printer hardware and software for performing a print function and printer diagnostics;

a processor contained in said printer device, said processor containing Ethernet MAC and system controllers;

Internet connection hardware and software, said Internet connection hardware and software presenting a valid Internet address for said printer device to the Internet;

said printer software also reporting printer diagnostics over the Internet using said Internet address.

11.   (Cancelled).

12.   (Previously Presented) The printer device of Claim 10, wherein said microprocessor gathers statistics concerning said printer device.

13.   (Previously Presented)   The printer device of Claim 12 further comprising said Internet connection hardware and software reporting said statistics over the Internet.

14.   (Previously Presented) The printer device of Claim 10, further comprising said printer device acting as an independent Internet server.

15.   (Previously Presented) The printer device of Claim 10, wherein said Internet connection hardware and software uses TCP/IP protocols.